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# U. S. DEPARTMENT OF AGRICULTURE.

BUREAU OF ANIMAL INDUSTRY.—CIRCULAR 134. Has been rev. --see rev.ed.

A. D. MELVIN, CHIEF OF BUREAU.

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### [September 1, 1908.]

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[These reports are volumes of several hundred pages, with illustrations, and contain special articles and miscellaneous information.]

First Annual Report for the Year 1884. Price 65 cents. Second Annual Report for the Year 1885. Price 65 cents.

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#### ANNUAL REPORTS OF THE CHIEF OF THE BUREAU.

These are administrative reports in pamphlet form and are included in the Bureau Annual Reports listed above. They can be supplied for the following fiscal years: 1889, 1890, 1891, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1905, 1906, 1907.

#### LIVE STOCK-BREEDING, FEEDING, ETC.

#### CATTLE.

Bulletin 34. American Breeds of Beef Cattle, with Remarks on Pedigrees. Price 20 cents.

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Bulletin 103. Experiments in Beef Production in Alabama. Price 10 cents.

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Circular 37. Preliminary Report on Argentina as a Market for Purebred Cattle from the United States.

Circular 75. Feeding Fat into Milk.

Circular 104. Welsh Black Cattle.

Circular 105. Baby Beef.

Farmers' Bulletin 55. The Dairy Herd-Its Formation and Management.

Farmers' Bulletin 71. Some Essentials in Beef Production.

Farmers' Bulletin 143. Conformation of Beef and Dairy Cattle.

Farmers' Bulletin 106. Breeds of Dairy Cattle.

Breeds of Dairy Cattle. (Reprint from Fourteenth Annual Report.)

#### HORSES.

Bulletin 37. Market Classes of Horses. Price 30 cents.

Circular 87. Hunter Horse Production in Ireland.

Circular 113. Classification for American Carriage Horses.

Circular 124. Suggestions for Horse and Mule Raising in the South.

Farmers' Bulletin 170. Principles of Horse Feeding. (Prepared by the Office of Experiment Stations.)

Farmers' Bulletin 179. Horseshoeing.

Government Encouragement of Imported Breeds of Horses. (Reprint from Twenty-second Annual Report.)

#### HOGS.

Bulletin 47. The Hog Industry. Price 30 cents. Circular 63. A Review of Some Experimental Work in Pig Feeding.

Circular 95. The Fecundity of Poland-China and Duroc-Jersey Sows.

Farmers' Bulletin 100. Hog Raising in the South.

Farmers' Bulletin 205. Pig Management.

The Danish Hog Industry. (Reprint from Twenty-third Annual Report.)

#### SHEEP AND GOATS.

Bulletin 27 (Revised). Information Concerning the Angora Goat. Price 15 cents. Bulletin 68. Information Concerning the Milch Goats. Price 15 cents.

Circular 42. Information Concerning Common Goats.

Circular 81. The Sheep Industry of England, Scotland, Ireland, and France.

Farmers' Bulletin 49. Sheep Feeding. (Prepared by the Office of Experiment

Farmers' Bulletin 96. Raising Sheep for Mutton. Farmers' Bulletin 137. The Angora Goat.

Sheep Ranching in the Western States. (Reprint from Nineteenth Annual Report.)

#### MISCELLANEOUS.

Bulletin 48. The Animal Industry of Argentina. Price 20 cents.

Bulletin 51. The Available Energy of Timothy Hay. (Experiments with the Respiration Calorimeter.) Price 10 cents.

Bulletin 61. The Score Card in Stock Judging at Agricultural Colleges. Price

Bulletin 64. State Stock Breeders' Associations. Price 5 cents. Bulletin 74. Energy Values of Red Clover Hay and Maize Meal. (Experiments with the Respiration Calorimeter.) Price 5 cents.
Bulletin 76. The Score Card in Stock Breeding. Price 5 cents.

Bulletin 77. Cattle, Sheep, and Hog Feeding in Europe. Price 5 cents.

Bulletin 101. The Available Energy of Red Clover Hay. (Experiments with the Repiration Calorimeter.) Price 10 cents.

Circular 86. Alfalfa for the Growing and Fattening of Animals in the Great Plains Region.

Farmers' Bulletin 22. The Feeding of Farm Animals. (Prepared by the Office of Experiment Stations.)

Notes on the Animal Industry of Porto Rico. (Reprint from Sixteenth Annual Report.)

Investigations in Animal Nutrition. (Reprint from Twenty-third Annual Report.)

# DISEASES OF ANIMALS.

#### CATTLE.

Special Report on Diseases of Cattle. Price 65 cents.

Bulletin 28. Legislation with Reference to Bovine Tuberculosis. (1901.) Price

Bulletin 32. The Tuberculin Test of Imported Cattle. Price 5 cents.

Bulletin 33. Relation of Bovine Tuberculosis to the Public Health. Price 5 cents.

Bulletin 38. Tuberculosis of the Food-Producing Animals. Price 40 cents.

Bulletin 44. Infectiveness of Milk of Cows which have Reacted to the Tuberculin Test. Price 10 cents.

Bulletin 52. Experiments Concerning Tuberculosis.

Part I. The Virulence of Human and Bovine Tubercle Bacilli for Guinea Pigs and Rabbits. Price 10 cents.

Part II. The Comparative Virulence of Human and Bovine Tubercle Bacilli for Some Large nimals. Price 65 cents. Part III. Studies in Immunity from Tuberculosis, and The Persistence of Tubercle Bacilli in

Tissues of Animals After Injection. Price 5 cents.

Bulletin 53. Reports on Bovine Tuberculosis and the Public Health. Price 5

Bulletin 54. Laws (Federal, State, and Territorial) Relating to Contagious and Infectious Diseases of Animals, 1902 and 1903. Price 5 cents.

Bulletin 78. Texas Fever, with Methods for Its Prevention. Price 10 cents.

Bulletin 86. Experiments with Milk Artificially Infected with Tubercle Bacilli. Price 10 cents.

Bulletin 93. The Relation of Tuberculous Lesions to the Mode of Infection. Price 5 cents.

Bulletin 96. A Comparative Study of Tubercle Bacilli from Varied Sources. Price 40 cents.

Bulletin 97. Proceedings of a Conference of Federal and State Representatives to Consider Plans for the Eradication of the Cattle Tick, held at Nashville, Tenn., December 5 and 6, 1906. Price 15 cents.
Bulletin 99. The Danger from Tubercle Bacilli in the Environment of Tubercu-

lous Cattle. Price 5 cents.

Circular 23. Directions for the Use of Blackleg Vaccine.

Circular 28. Letters Relating to the Distribution of Vaccine. Circular 31. Blackleg: Its Nature, Cause, and Prevention.

Circular 51. Mycotic Stomatitis of Cattle.

Circular 65. Ophthalmia in Cattle. Circular 66. Osteomalacia, or Creeps, in Cattle.

Circular 67. Abortion, or Slinking the Calf.

Circular 68. Diseases of the Stomach and Bowels of Cattle.

Circular 69. Texas Fever, or Southern Cattle Fever.

Circular 70. Tuberculosis of Cattle.

Circular 79. The Tuberculin Test for Tuberculosis.

Circular 96. Actinomycosis, or Lumpy Jaw. Circular 97. How to Get Rid of Cattle Ticks.

Circular 110. Methods of Eradicating Cattle Ticks. Circular 118. The Unsuspected but Dangerously Tuberculous Cow. Circular 127. Tubercle Bacilli in Butter: Their Occurrence, Vitality, and Sig-

Farmers' Bulletin 152. Scabies in Cattle.

Farmers' Bulletin 206. Milk Fever: Its Simple and Successful Treatment.

Farmers' Bulletin 258. Texas or Tick Fever and Its Prevention.
Farmers' Bulletin 261. The Cattle Tick in Its Relation to Southern Agriculture.
Blackleg in the United States and the Distribution of Blackleg Vaccine by the Bureau of Animal Industry. (Reprint from Fourteenth Annual Report.)

Experiments with Texas Fever and Southern Cattle Ticks. (Reprint from Sixteenth Annual Report.)

Foot-and-Mouth Disease. (Reprint from Nineteenth Annual Report.)

Notes on the Cattle Tick and Texas Fever, and the Persistence of Texas Fever in the Blood of Southern Cattle. (Reprint from Twenty-second Annual Report.)

HORSES.

Special Report on Diseases of the Horse. Price 65 cents. Circular 78. Glanders and Farcy.

Circular 121. Osteoporosis or Bighead of the Horse. Circular 122. Epizootic Cerebro-Spinal Meningitis of Horses.

#### HOGS ..

Bulletin 69. External Parasites of Hogs. Price 5 cents.

Bulletin 72. The Etiology of Hog Cholera. Price 10 cents. Bulletin 88. The Tuberculin Test of Hogs and Some Methods of Their Infection with Tuberculosis. Price 10 cents.

Bulletin 102. Further Experiments Concerning the Production of Immunity from Hog Cholera. Price 15 cents.

Circular 41. A Form of Hog Cholera not Caused by the Hog Cholera Bacillus. Circular 108. Trichinosis: A Danger in the Use of Raw Pork for Food.

Farmers' Bulletin 24. Hog Cholera and Swine Plague.

#### SHEEP AND GOATS.

Bulletin 21 (Revised). Sheep Scab: Its Nature and Treatment. Price 15 cents.

Bulletin 45. Takosis, a Contagious Disease of Goats. Price 10 cents.

Bulletin 63. Foot Rot of Sheep: Its Nature, Cause, and Treatment. Price 10

Bulletin 66. The Gid Parasite: Its Presence in American Sheep. Price 5 cents.

Circular 94. Foot Rot of Sheep.

Circular 102. Stomach Worms (Hæmonchus contortus) in Sheep.

Farmers' Bulletin 159. Scab in Sheep.

The Nature, Cause, and Economic Importance of Ovine Caseous Lymphadenitis. (Reprint from Sixteenth Annual Report.)

#### MISCELLANEOUS.

Bulletin 42. Emergency Report on Surra. Price 15 cents.

Bulletin 67. Necrotic Stomatitis, with Special Reference to Its Occurrence in Calves (Calf Diphtheria) and Pigs (Sore Mouth). Price 10 cents.

Circular 71. Anthrax in Cattle, Horses, and Men.

Circular 89. The Preparation of Emulsions of Crude Petroleum.

Circular 109. Quail Disease in the United States.

Circular 120. Some Observations on Rabies.

Circular 129. Rabies and Its Increasing Prevalence.

The Seventh International Veterinary Congress. (Reprint from Sixteenth

Annual Report.)
Verminous Diseases of Cattle, Sheep, and Goats in Texas.
Seventeenth Annual Report.)

Further Investigations on Verminous Diseases of Cattle, Sheep, and Goats in Texas. (Reprint from Eighteenth Annual Report.)

#### ANIMAL PARASITES.

Bulletin 12. Tapeworms of Poultry. Price 15 cents.
Bulletin 19. The Inspection of Meats for Animal Parasites. Price 10 cents.
Bulletin 35. Eleven Miscellaneous Papers on Animal Parasites. Price 10 cents.

Bulletin 39. Index-Catalogue of Medical and Veterinary Zoology.

Part 1. Authors: A to Azevedo. Price 5 cents.
Part 2. Authors: B to Buxton. Price 10 cents.
Part 3. Authors: C to Czygan. Price 10 cents.
Part 4. Authors: D to Dziembowski. Price 5 cents.
Part 5. Authors: E to Eyssel. Price 5 cents.
Part 6. Authors: E to Eyssel. Price 5 cents.
Part 7. Authors: G to Gmelin. Price 5 cents.
Part 8. Authors: Gobée to Gyser. Price 5 cents.
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Part 19. Authors: Mitschein to Myrepsus. Price 10 cents.
Part 20. Authors: Mitschein to Myrepsus. Price 10 cents.
Part 20. Authors: N to Nyström. Price 15 cents.
Part 21. Authors: O to Ozzard. Price 10 cents.

Bulletin 42. Emergency Report on Surra. Price 15 cents.

Bulletin 60. Manson's Eyeworm of Chickens. Price 20 cents.

Bulletin 66. The Gid Parasite (Canurus cerebralis): Its Presence in American

Bulletin 66. The Gid Parasite (Canurus cereorans). Its Tresence in American Sheep. Price 5 cents.

Bulletin 69. The External Parasites of Hogs. Price 5 cents.

Bulletin 79. The Determination of Generic Types, with a List of Roundworm Genera, with Their Original and Type Species. Price 5 cents.

Bulletin 80. The Synonymy of Tania, T. Crassicollis, T. Marginata, T. Serrata, T. Canurus, T. Seralis, and Echinococcus. Price 5 cents.

Circular 9. Check List of the Animal Parasites of Chickens.

Circular 13. Check List of the Animal Parasites of Ducks. Circular 14. Check List of the Animal Parasites of Geese.

Circular 15. Check List of the Animal Parasites of Pigeons.

Circular 64. A New Nematode (Gongylonema ingluvicola) Parasitic in the Crop of Chickens.

Circular 98. Some Unusual Host Relations of the Texas Fever Tick.

Circular 102. Stomach Worms (Hæmonchus contortus) in Sheep.

Circular 116. Notes on Parasitic Nematodes, including Descriptions of New Genera, with Observations on Life Histories.

Note on the Chicken Tick. (Reprint from Sixteenth Annual Report.)

Our Present Knowledge of the Kidneyworm of Swine. (Reprint from Sixteenth Annual Report.)

The Significance of the Recent American Cases of Hookworm in Man. (Reprint from Eighteenth Annual Report.)

Frogs, Toads, and Carp as Eradicators of Fluke Disease. (Reprint from Eighteenth Annual Report.)

(See also the following publications under "Diseases of Animals:" Bulletins 21, 78, 97; Circulars 69, 97, 110; Farmers' Bulletins 152, 159, and reprints from Annual Reports.)

#### THE DAIRY INDUSTRY.

#### GENERAL.

Bulletin 11. Statistics of the Dairy. Compiled from the United States Census of 1890. Price 5 cents.

Bulletin 14. Dairying in California. Price 5 cents.

Bulletin 16. The Dairy Industry in Nebraska, South Dakota, and North Dakota. Price 5 cents.

Bulletin 24. Notes Upon Dairying in California and the Export of California Butter to the Orient. Price 5 cents.

Bulletin 26. National and State Dairy Laws. (1900.) Price 10 cents.

Bulletin 55. Statistics of the Dairy. Compiled from the United States Census

for 1900. Price 10 cents. Circular 46. The International Dairy Federation and International Dairy Congresses.

Circular 76. Dairy Methods in Great Britain, Ireland, Denmark, Holland, Channel Islands, France, Austria-Hungary, Germany, and Switzerland. Circular 115. Officials, Associations, Commissions, and Educational Institutions Connected with the Dairy Interests of the United States for the Year 1907.

Circular 131. Designs for Dairy Buildings.

Farmers' Bulletin 55. The Dairy Herd-Its Formation and Management.

Farmers' Bulletin 106. Breeds of Dairy Cattle.

Farmers' Bulletin 151. Dairying in the South.

The Dairy Interests and Dairy Markets of Porto Rico, with Notes on St. Thomas and Cuba. (Reprint from Eighteenth Annual Report.)

Utilization of By-Products of the Dairy. (Reprint from Department Yearbook, 1897.)

Dairying at Home and Abroad. (Reprint from Department Yearbook, 1902.) Opportunities for Dairying. (Reprint from Department Yearbook, 1906.)

#### MILK AND CREAM.

Bulletin 46. The Milk Supply of Two Hundred Cities and Towns. Price 15 cents. Bulletin 58. The Fat Testing of Cream by the Babcock Method. Price 5 cents. Bulletin 59. The Farm Separator—Its Relation to the Creamery and the Creamery Patron. Price 5 cents.

Bulletin 70. The Milk Supply of Twenty-nine Southern Cities. Price 5 cents.

Bulletin 73. The Bacteria of Pasteurized and Unpasteurized Milk under Laboratory Conditions. Price 5 cents.

Bulletin 75. Records of Dairy Cows in the United States. Price 15 cents. Bulletin 81. The Milk Supply of Boston, New York, and Philadelphia. Price 5 cents.

Bulletin 87. Market Milk Investigations.—II. The Milk and Cream Exhibit at the National Dairy Show, 1906. Price 10 cents.

Bulletin 92. The Milking Machine as a Factor in Dairying. Price 15 cents.

Bulletin 104. Medical Milk Commissions and the Production of Certified Milk in the United States. Price 10 cents.

Circular 1. Directions for the Pasteurizing of Milk [for home use].

Circular 75. Feeding Fat into Milk.

Circular 103. Records of Dairy Cows: Their Value and Importance in Economic Milk Production.

Circular 114. Sanitary Milk Production.

Circular 117. A City Milk and Cream Contest as a Practical Method of Improving the Milk Supply.

Farmers' Bulletin 42. Facts About Milk. Farmers' Bulletin 63. Care of Milk on the Farm. Farmers' Bulletin 201. The Cream Separator on Western Farms.

A Report upon the Examination of Milk. (Reprint from Sixteenth Annual Report.

Market Milk: A Plan for Its Improvement. (Reprint from Sixteenth Annual Report.) BUTTER.

Bulletin 57. Studies Upon the Keeping Quality of Butter.—I. Canned Butter. Price 5 cents.

Bulletin 84. Investigations in the Manufacture and Storage of Butter.—I. The Keeping Quality of Butter Made Under Different Conditions and Stored at Different Temperatures. Price 10 cents.

Bulletin 89. Investigations in the Manufacture and Storage of Butter.—II. Pre-

venting Molds in Butter Tubs. Price 5 cents. Renovated Butter: Its Origin and History. (Reprint from Department Yearbook, 1905.)

Circular 100. A Rapid Method for the Determination of Water in Butter. Circular 126. A Simple Method of Keeping Creamery Records. Circular 127. Tubercle Bacilli in Butter: Their Occurrence, Vitality, and Significance.

Farmers' Bulletin 241. Butter Making on the Farm.

Experimental Exports of Butter, 1897. (Reprint from Fourteenth Annual Report.)

Report Upon Experimental Exports of Butter, 1898-99. (Reprint from Sixteenth Annual Report.) CHEESE.

Bulletin 15. The Cheese Industry of the State of New York. Price 5 cents. Bulletin 49. The Cold Curing of Cheese. Price 10 cents. Bulletin 62. The Relation of Bacteria to the Flavors of Cheddar Cheese. Price 5 cents.

Bulletin 71. The Camembert Type of Soft Cheese in the United States. Price 5 cents.

Bulletin 82. Fungi in Cheese Ripening: Camembert and Roquefort. Price 5 cents.

Bulletin 83. The Cold Storage of Cheese. (Experiments of 1903-4.) cents.

Bulletin 85. Investigations in the Manufacture and Curing of Cheese.—VI. The Cold Curing of American Cheese. Price 10 cents.

Bulletin 98. Investigations in the Manufacture and Curing of Cheese.—VII. Directions for Making the Camembert Type of Cheese. Price 5 cents.

Bulletin 105. Varieties of Cheese: Descriptions and Analyses. Price 10 cents. Circular 19. Factory Cheese and How it is Made. Farmers' Bulletin 166. Cheese Making on the Farm.

Soft Cheese Studies in Europe. (Reprint from Twenty-second Annual Report.)

# POULTRY.

Bulletin 8. Investigations Concerning Infectious Diseases Among Poultry. Price 15 cents.

Bulletin 12. Tapeworms of Poultry. Price 15 cents.
Bulletin 29. American Breeds of Fowls.—I. The Plymouth Rock. Price 15 cents.

Bulletin 31. American Breeds of Fowls.—II. The Wyandotte. Price 15 cents.

Bulletin 56. Digestion Experiments with Poultry. Price 20 cents.

Bulletin 65. The Poultry and Egg Industry of Leading European Countries. Price

Circular 5. Blackhead or Infectious Entero-hepatitis in Turkeys.

Circular 107. Capons and Caponizing. Circular 119. Notes on Experiments with Blackhead of Turkeys.

Circular 128. White Diarrhea of Chicks. With Notes on Coccidiosis of Birds.

Farmers' Bulletin 51. Standard Varieties of Chickens.
Farmers' Bulletin 64. Ducks and Geese: Standard Breeds and Management.
Farmers' Bulletin 177. Squab Raising.
Farmers' Bulletin 200. Turkeys: Standard Varieties and Management.
Farmers' Bulletin 234. The Guinea Fowl and Its Use as Food. (Prepared by the Office of Experiment Stations.)

Farmers' Bulletin 236. Incubation and Incubators.
Farmers' Bulletin 287. Poultry Management.
Distribution and Magnitude of the Poultry and Egg Industry. (Reprint from Nineteenth Annual Report.)

# MISCELLANEOUS.

Bulletin 22. Proceedings of the Second Annual Meeting of the Association of Experiment Station Veterinarians, held at Omaha, Nebr., September 8, 1898. Price 5 cents.

Bulletin 50. German Meat Regulations. With Original Text. Price 5 cents. Bulletin 94. Investigations in the Use of the Bomb Calorimeter. Price 10 cents. Bulletin 95. The Bacteriolytic Power of the Blood Serum of Hogs. Price 10

cents.

Bulletin 100. The Germicidal Value of Liquor Cresolis Compositus (U. S. P.). Price 5 cents.

Bulletin 107. The Analysis of Coal-Tar Creosote and Cresylic Acid Sheep Dips. Price 10 cents.

Circular 17. Exports of Animals and Their Products.

Circular 58. Pulmonary Mycosis of Birds, with Report of a Case in a Flamingo.

Circular 57. Invisible Micro-Organisms. Circular 61. The Desirability of Phosphates as an Addition to Culture Media for Tubercle Bacilli.

Circular 101. The New Meat Inspection Law and Its Bearing Upon the Production and Handling of Meats.

Circular 123. Instructions for Preparing and Shipping Pathological Specimens for Diagnosis.

Circular 125. The Federal Meat Inspection Service. Circular 132. A Practical Method for the Detection of Beef Fat in Lard.

Circular 133. Report and Recommendations Regarding Veterinary Colleges in the United States.

Preliminary Catalogue of Plants Poisonous to Stock. (Reprint from Fourteenth Annual Report.)

The Susceptibility of Tubercle Bacilli to Modification. (Reprint from Twentythird Annual Report.)

The Preparation and Use of Tuberculin. (Reprint from Department Yearbook, 1898.)

Cattle Dipping: Experimental and Practical. (Reprint from Department Year-

book, 1898.)
Distribution of Tuberculin and Mallein by the Bureau of Animal Industry.

(Reprint from Department Yearbook, 1906.)
Hygienic Water Supplies for Farms. (Reprint from Department Yearbook, 1907.)

#### REGULATIONS.

[The following are the more important regulations in force at the time of the compilation of this circular. They are subject to change, and persons requesting any here listed will be supplied with the current regulations.]

Order 139. Regulations Governing the Inspection, Humane Handling, and Safe Transport of Animals Carried by Ocean Steamers from the United States to Foreign Countries.

Order 142. Regulations for the Inspection and Quarantine of Horses, Cattle, Sheep, and Other Ruminants, and Swine Imported Into the United States. Order 143. Regulations of the Secretary of Agriculture Governing the Inspection, Certification, Treatment, Handling, and Method and Manner of Delivery and Shipment of Live Stock which is the Subject of Interstate Commerce.

Order 146. To Prevent the Spread of Scabies in Sheep.

Order 147. Regulations Prescribed in Regard to Renovated Butter in Accordance with the Act of Congress Approved May 9, 1902.

Order 150. Regulations Governing the Meat Inspection of the United States Department of Agriculture.

Order 151. To Prevent the Spread of Splenetic Fever in Cattle. Order 152. To Prevent the Spread of Scabies in Cattle.